Title (en)

ELECTRIC GENERATOR WITH A ROTATIONAL RESISTANCE AVOIDANCE FEATURE

Title (de)

ELEKTRISCHER GENERATOR MIT FUNKTION ZUR VERMEIDUNG VON DREHWIDERSTAND

Title (fr)

GÉNÉRATEUR ÉLECTRIQUE À CARACTÉRISTIQUE D'ÉVITEMENT DE RÉSISTANCE ROTATIVE

Publication

EP 3378145 B1 20200603 (EN)

Application

EP 16866763 A 20161107

Priority

- TH 1501006914 A 20151117
- TH 2016000091 W 20161107

Abstract (en)

[origin: WO2017086886A2] The electric generator with the rotational resistance avoidance feature in the present invention comprises a rotating set of magnet parts interposed between at least two rotating sets of conductor coil parts, which are respectively installed on opposite sides of the rotating set of magnet parts. The diameters of the rotating sets of conductor coil parts are configured to be larger than the diameter of the rotating set of magnet parts. The rotational speed of the conductor coil parts and the magnet parts are therefore different, which causes the induction of the electromotive force within the conductor coils by way of variation of the magnetic field. When the mechanical power input is applied only on the rotating set of magnet parts and the electromotive force induced in the conductor coif,; which has been connected to a load, is applied to a load; the electrical current will induce the conductor coil itself to generate magnetic polarities which are similar to the original magnetic polarities of the permanent magnet. The sets of conductor coils are pushed by the said pushing force to be continuously rotated in a clockwise direction (freely rotated without being driven by the mechanical power input). The rotating set of magnets in the middle is also continuously rotated by the mechanical power input. With this configuration, the rotational resistance can be avoided. Therefore, the additional mechanical power input is not necessary (rather, only a partial increase is required), and the electrical power can be generated by converting the magnetic energy stored in permanent magnets, to be supplied to the toad greater than the mechanical power input.

IPC 8 full level

H02K 16/00 (2006.01); **H02K 53/00** (2006.01)

CPC (source: EP RU US)

H02K 16/00 (2013.01 - RU); **H02K 16/005** (2013.01 - US); **H02K 53/00** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2017086886 A2 20170526; **WO 2017086886 A3 20170706**; AU 2016354870 A1 20180628; AU 2016354870 B2 20201105; CN 108886311 A 20181123; CN 108886311 B 20210223; DK 3378145 T3 20200907; EP 3378145 A2 20180926; EP 3378145 A4 20191016; EP 3378145 B1 20200603; ES 2813950 T3 20210325; HR P20201390 T1 20201211; HU E050844 T2 20210128; JP 2018533907 A 20181115; JP 6718969 B2 20200708; LT 3378145 T 20201110; PL 3378145 T3 20201214; PT 3378145 T 20200914; RU 2018121435 A 20191218; RU 2018121435 A3 20191219; RU 2737351 C2 20201127; SI 3378145 T1 20210226; US 11025153 B2 20210601; US 2020028429 A1 20200123

DOCDB simple family (application)

TH 2016000091 W 20161107; AU 2016354870 A 20161107; CN 201680063520 A 20161107; DK 16866763 T 20161107; EP 16866763 A 20161107; ES 16866763 T 20161107; HR P20201390 T 20200831; HU E16866763 A 20161107; JP 2018542109 A 20161107; LT 16866763 T 20161107; PL 16866763 T 20161107; PT 16866763 T 20161107; RU 2018121435 A 20161107; SI 201630910 T 20161107; US 201615774533 A 20161107